

CASE STUDY



Student Castle, Oxford

A below ground waterproofing solution was required for Oxford University's high specification student accommodation.



THE CHALLENGE

Oxford University's Student Castle is a high specification student accommodation project, adjacent to the city's railway station, comprising 515 bedrooms. The three principal blocks constructed in reinforced concrete, will house student dwellings across six storeys, including flats, one bed studios and twodios. In addition, the accommodation blocks will each comprise a gym, games area, large private meeting rooms, roof terrace and bike store.

The project design takes inspiration from Oxford's rich medieval history and will feature courtyards, gardens, cloisters and colonnades.

Waterproofing Specialists Cast Contracting Ltd (CCL) were commissioned by Winvic Construction to design, supply and install a Gas Proof DPM Membrane under the ground floor slab of each of the three student accommodation blocks.



THE SOLUTION

CCL's design team selected the installation of Newton's 104 Crystalline Coating across the concrete ground beams. Visqueen's Eco DPM was applied across sand blindings prior to installation of the insulation, vapour membrane and concrete ground floor slabs. Once the concrete was formed,

CCL terminated the system up to DPC level using Visqueen's Self Adhesive membrane (SAM) which was fixed to the cement particle board.

All service penetrations were fully sealed with Visqueen's top hat detail to provide a fully sealed gas tight system in each accommodation block.



CLIENT TESTIMONIAL:

"The team of operatives from CCL undertook the gas proofing works during multiple visits to site. A successful installation process was achieved thanks to the employment of good quality control sign off procedures, pre site surveys and close communication with the Winvic team onsite throughout the project."

Francis Cawley, Project Manager, Winvic Construction Ltd

PRODUCTS

Visqueen Eco DPM

Newton 104 Crystalline

Visqueen SAM (Self-adhesive membrane)

Visqueen Top Hats

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